

ELECTRICAL COURSES

MOTORS (E6B)

OBJECTIVE:

This seminar provides attendees with a practical understanding of the theory and functions of AC motors, multi speed dual voltage motors, DC and universal motors, AC and DC motor starter, maintenance procedures for AC, DC and universal motors.

WHO SHOULD ATTEND?

This course is intended for experienced technicians, maintenance supervisors, and engineers with basic experience in this field.

COURSE CONTENT:

- Three Phase Motor Principles
- Induction Motors
- Synchronous Motors
- Multi-speed, Dual Voltage Motors, and AC Motor Starting Methods
- Three Phase Motor Maintenance
- Split-Phase Motor
- Capacitor Motors
- DC Motors
- DC Motor Controllers
- DC Motor Maintenance
- Universal Motors

PRACTICAL TASKS:

- Megger test
- Winding resistance test
- Current balance test
- Polarity test
- Voltage drop test for DC motor
- Bar to bar test

Duration: 10 Days

| Date: | Venue: | Cost: |
|------------|--------|----------|
| Feb 2 – 13 | Dammam | SR10,000 |
| Jul 5 – 16 | Dammam | SR10,000 |

ON LOAD TAP CHANGER (E48A)

OBJECTIVE:

This seminar provides the participants with the fundamentals and methods of voltage control, Types of Tap Changers, MR-OLTC operation, maintenance, OLTC inspection and Servicing Procedure.

WHO SHOULD ATTEND?

This course is very efficient for electrical technicians and engineers with basic experience in this field who need to get advanced knowledge in transformer maintenance and practical information about OLTC inspection.

COURSE CONTENT:

- Methods of Voltage Control
- Automatic Voltage Regulator
- Types of Tap Changers
- Off Load Tap Changers Operation and Maintenance
- Off Load Tap Changer Inspection & Testing
- On-Load Tap Changer Operation and Maintenance
- Non-Load Tap Changer Inspection & Testing
- OLTC Motor Drive Operation and Maintenance
- Transformer Testing Before and After OLTC Inspection
- Energization of the Transformer after OLTC Inspection.

Practical Tasks:

1. Watching some practical photos of Off Load and On Load Tap Changers.
2. Visiting the electrical workshop for familiarization on the types of Tap Changer.

Duration: 5 Days

| Date: | Venue: | Cost: |
|-------------|--------|---------|
| May 3 – 7 | Dammam | SR6,000 |
| Jul 26 – 30 | Abha | SR7,000 |
| Nov 22 – 26 | Dammam | SR6,000 |